#### 03050206-070

(Four Hole Swamp)

## **General Description**

Watershed 03050206-070 is located in Dorchester and Berkeley Counties and consists primarily of *Four Hole Swamp* and its tributaries from Dean Swamp to its confluence with the Edisto River. The watershed occupies 78,723 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Hobcaw-Mouzon-Albany-Daleville-Rains series. The erodibility of the soil (K) averages 0.20 and the slope of the terrain averages 1%, with a range of 0-2%. Land use/land cover in the watershed includes: 51.5% forested land, 28.6% forested wetland (swamp), 13.7% agricultural land, 1.0% urban land, 4.5% barren land, 0.4% nonforested wetland (marsh), and 0.3% water.

As a reach of Four Hole Swamp, this watershed accepts the drainage from all streams entering the swamp system upstream. This section of Four Hole Swamp accepts drainage from Merkel Branch (Lake Merkel), Santee Branch (Rock Branch), and Walnut Branch (Coldwater Branch, Little Walnut Branch, Cane Branch, Crawford Branch, Lang Branch, Deep Branch, Marshall Branch) near the Town of Dorchester. Halfway Gut Creek enters the swamp next, followed by Timothy Creek, which flows past the Town of Ridgeville. Powder Horn Branch drains into the swamp at the base of the watershed. There are a total of 151.9 stream miles and 177.2 acres of lake waters in this watershed. Four Hole Swamp is classified FW\* (site specific classification requires DO not less than 4.0 mg/l and pH between 5.0-8.5), and the remaining streams are classified FW. The Francis Beidler Forest, a nature preserve, is another natural resource in the watershed.

#### **Surface Water Quality**

Station #	<u>Type</u>	<u>Class</u>	<u>Description</u>
E-100	P/W	FW*	FOUR HOLE SWAMP AT US 78, E. OF DORCHESTER
E-015A	W/INT	FW*	FOUR HOLE SWAMP AT S-18-19

Four Hole Swamp - There are two SCDHEC monitoring sites along this section of Four Hole Swamp. At the upstream site (E-100), aquatic life uses are partially supported due to chromium excursions, compounded by significant increasing trends in turbidity and total suspended solids. There is a significant increasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentration suggest improving conditions for these parameters. The phthalate ester di-n-butylphthalate was detected in the 1998 sediment sample. Recreational uses are partially supported at this site due to fecal coliform bacteria excursions. At the downstream site (E-015A), aquatic life and recreational uses are fully supported. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter.

## **NPDES Program**

**Active NPDES Facilities** 

RECEIVING STREAM
PACILITY NAME
PERMITTED FLOW @ PIPE (MGD)
PINE (MGD)
PINE (MGD)
PINE (MGD)
PINE (MGD)

TIMOTHY CREEK SC0038555

SHOWA DENKO CARBON INDUSTRIES MAJOR INDUSTRIAL

PIPE #: 001 FLOW: 0.086

TIMOTHY CREEK SCG730073

D&A PARTNERSHIP/RIDGEVILLE PIT MINOR INDUSTRIAL

PIPE #: 001 FLOW: M/R

DEEP BRANCH SCG730224

GIANT CEMENT CO./WASHIE RD SAND MINE MINOR INDUSTRIAL

PIPE #: 001 FLOW: M/R

MARSHALL BRANCH SCG730021

D&A PARTNERSHIP/CARTER PIT MINOR INDUSTRIAL

PIPE #: 001 FLOW: M/R

FOUR HOLE SWAMP SCG730024

SANDERS BROTHERS CONSTR./BIG OAK MINE MINOR INDUSTRIAL

PIPE #: 001 FLOW: M/R

# **Nonpoint Source Management Program**

Land Disposal Activities

**Landfill Facilities** 

LANDFILL NAME PERMIT#
FACILITY TYPE STATUS

SANDY PINES LANDFILL 182401-1101 MUNICIPAL CLOSED

OAKRIDGE LANDFILL 182400-1101 (DWP-130)

DOMESTIC ACTIVE

DORCHESTER COUNTY LANDFILL/DEE LEE SITE DWP-080 MUNICIPAL CLOSED

Mining Activities

MINING COMPANY PERMIT #
MINE NAME MINERAL

DORCHESTER DIRT CO., INC. 1027-35

DIAMOND MINE #3 SAND; SAND/CLAY

D&A PARTNERSHIP 1047-35

CARTER MINE SAND; SAND/CLAY

D&A PARTNERSHIP 1085-35

GIVENS MINE SAND; SAND/CLAY

SANDERS BROTHERS 1031-35 BIG OAK MINE SAND

LAFARGE MATERIALS, INC. 0110-35 HARLEYVILLE QUARRY LIMESTONE

GIANT CEMENT CO. 1163-35 WASHIE ROAD SAND MINE SAND

DORCHESTER MINING, INC. 0923-35

DORCHESTER MINE SAND; SAND/CLAY

MORGAN CORPORATION 1000-35

MORGAN MINE SAND; SAND/CLAY

D&A PARTNERSHIP 0870-35
RIDGEVILLE MINE CLAY

### **Growth Potential**

Interstate 26 bisects this watershed and some growth may occur near the interchanges at the Towns of Harleyville and Ridgeville. A rail line and U.S. 178/78 parallels I-26; another rail line crosses U.S.78 at S.C. 453.